

Title (en)

Vibrating device for jet flow generating including a voice coil motor

Title (de)

Schwingungsvorrichtung mit Schwingspulenmotor zur Strahlströmungserzeugung

Title (fr)

Dispositif vibrant pour générer un courant de jet utilisant un motor à bobine mobile

Publication

EP 1717936 A2 20061102 (EN)

Application

EP 06006559 A 20060329

Priority

JP 2005130309 A 20050427

Abstract (en)

A vibrating device (15) configured to vibrate a gas inside a chassis (1) to discharge the gas in a pulsating flow through an opening (12a,12b) formed in the chassis (1) includes a frame (4), a vibrating plate (3), a supporting member (6) that is attached to the frame (4) and that is configured to support the vibrating plate (3) in a manner such that the vibrating plate (3) is vibratable, and a driving mechanism (5) that is configured to drive the vibrating plate (3) and that includes a magnetic circuit member (8,14,18) attached to the frame (4) and a voice coil body (19,9,17) attached to the vibrating plate (3). The voice coil body (19,9,17) is configured to prevent the voice coil body (19,9,17) from contacting the magnetic circuit member (8,14,18) when the vibrating plate (3) is vibrating and is movable by means of a magnetic field generated by the magnetic circuit member (8,14,18).

IPC 8 full level

H02K 33/18 (2006.01); **H02K 41/035** (2006.01)

CPC (source: EP KR US)

G06F 1/00 (2013.01 - KR); **G06F 1/20** (2013.01 - KR); **H01L 23/467** (2013.01 - KR); **H02K 33/18** (2013.01 - EP US)

Cited by

CN113396019A; EP2101351A1; US7859842B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1717936 A2 20061102; CN 100442200 C 20081210; CN 1854980 A 20061101; JP 2006305453 A 20061109; KR 20060113446 A 20061102; TW 200706268 A 20070216; TW I303192 B 20081121; US 2006245614 A1 20061102

DOCDB simple family (application)

EP 06006559 A 20060329; CN 200610077121 A 20060427; JP 2005130309 A 20050427; KR 20060037459 A 20060426; TW 95110968 A 20060329; US 38021906 A 20060426